SALENG UNO/ARDUINO UNO

Fire alarm test

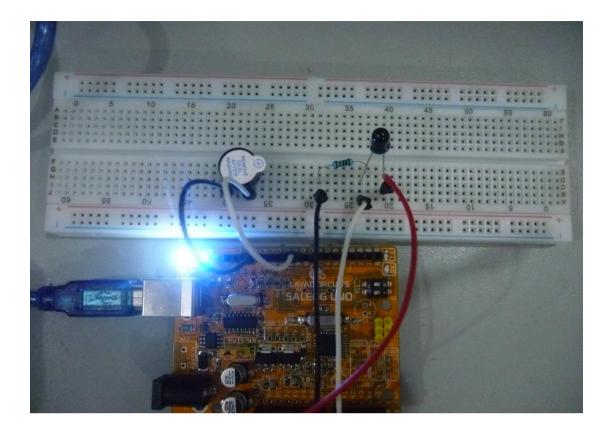
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The flame sensor (i.e., the infrared receiving diode) may be used to detect and respond to the presence of a flame or fire, allowing flame detection. This simple exercise demonstrate how this sensor may be used to detect a flame using an Arduino and a buzzer as alarm.

Components needed:

Saleng Uno/Arduino Uno flame sensor * 1 buzzer * 1 Pull down resistor: 10 k resistor: 1 Breadboard Jumper wires

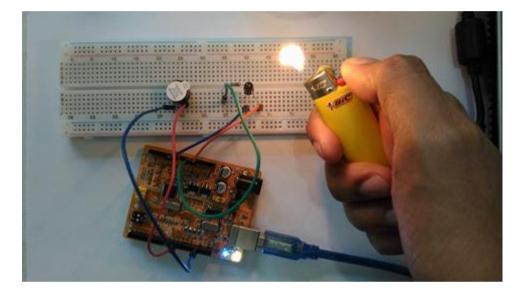


The code:

```
int flame=0;
int Beep=9;
int val=0;
void setup()
{
 pinMode(Beep,OUTPUT);
 pinMode(flame, INPUT);
Serial.begin(9600);
}
void loop()
{
 val=analogRead(flame);
 Serial.println(val);
 if(val>=600) // change the 600 threshold as you want
 {
  digitalWrite(Beep,HIGH);
  }else
  {
    digitalWrite(Beep,LOW);
   }
  delay(500);
}
```

THE RESULT:

The voltage across the sensor is displayed on the serial monitor (tools>serial monito) at a baud rate of 9600. If the flame generates enough infrared waves to breach the threshold in the code (currently 600 but you may adjust), the buzzer generates sound.



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